

SERVICE MANUAL

STEREO
CASSETTE PLAYER

BASIC TAPE MECHANISM : 4ZM-2 P12NC

SPECIFICATIONS

Maximum output: 15 mW + 15 mW (EIAJ 32 ohms)<YU, YJ>
4 mW + 4 mW (EIAJ 16 ohms)<Y>
Power source: DC 3V using two size AA (R6) batteries.
Maximum dimensions: 116.6 (W) x 92.0 (H) x 35.3 (D) mm
(4 ⁵/₈ x 3 ⁵/₈ x 1 ⁷/₁₆ in.)
Weight: Approx.108.5 g (3.8 oz) (excluding batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES/PACKAGE LIST

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	84-447-019-310		CLIP, BELT
2	87-B30-124-110		HEADPHONE, HP-M028<YU>
2	87-B30-145-110		HEADPHONE, HP-M029 (T) <Y, YJ>
2	87-B30-232-010		HEADPHONE, HP-M029 (T) <Y, YJ>
3	8A-HKA-903-010		IB, Y (EDPOHCZ) C<Y>
3	8A-HKA-902-010		IB, Y (EGFSI) C<Y>
3	8A-HKA-904-010		IB, YJ (ESC) C<YJ>
3	8A-HKA-901-010		IB, YU (ESF) C<YU>

ELECTRICAL MAIN PARTS LIST

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
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IC

87-A21-387-040	C-IC,TA2145F
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DIODE

87-020-027-080	CHIP-DIODE 1SS184
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MAIN C.B

C1	87-A11-554-080	C-CAP,S 1800P-50 K B
C2	87-A11-554-080	C-CAP,S 1800P-50 K B
C3	87-A11-565-080	C-CAP,S 8200P-50 K B
C4	87-A11-565-080	C-CAP,S 8200P-50 K B
C5	87-015-674-040	CAP E 22-6.3M SRA
C6	87-015-674-040	CAP E 22-6.3M SRA
C7	87-A11-553-080	C-CAP,S 1500P-50 K B
C8	87-A11-553-080	C-CAP,S 1500P-50 K B
C11	87-A10-489-040	CAP,E 220-4 7L SR
C12	87-A10-489-040	CAP,E 220-4 7L SR
C14	87-015-681-040	E/CAP 10-16
C15	87-A11-718-080	C-CAP,S 0.1-25 Z F
C16	87-A11-733-080	C-CAP,S 1-16 Z F<YJ ONLY>
C17	87-A11-733-080	C-CAP,S 1-16 Z F
C18	87-A11-733-080	C-CAP,S 1-16 Z F
C51	87-015-695-040	E/CAP 1UF 50V TAPG
C401	87-A11-722-080	C-CAP,S 0.22-16 Z F
C402	87-A11-722-080	C-CAP,S 0.22-16 Z F
C403	87-A11-718-080	C-CAP,S 0.1-25 Z F
J1	85-HRL-623-010	JACK,3.5 ST BLK
R51	87-A00-530-080	C-RES,S 180-1/10W F
SFR51	87-024-197-010	SEMI-FIXED RESISTOR, 1K
SW1	87-A90-133-110	SW,LEAF LSA1120JAU
VR1	87-A91-581-010	VR,RTRY 20KBX1

FRONT C.B

SW401	87-A90-917-010	C-SW,SL 1-1-2 SS-350-B12W-C-L
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○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding


8 8 - □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

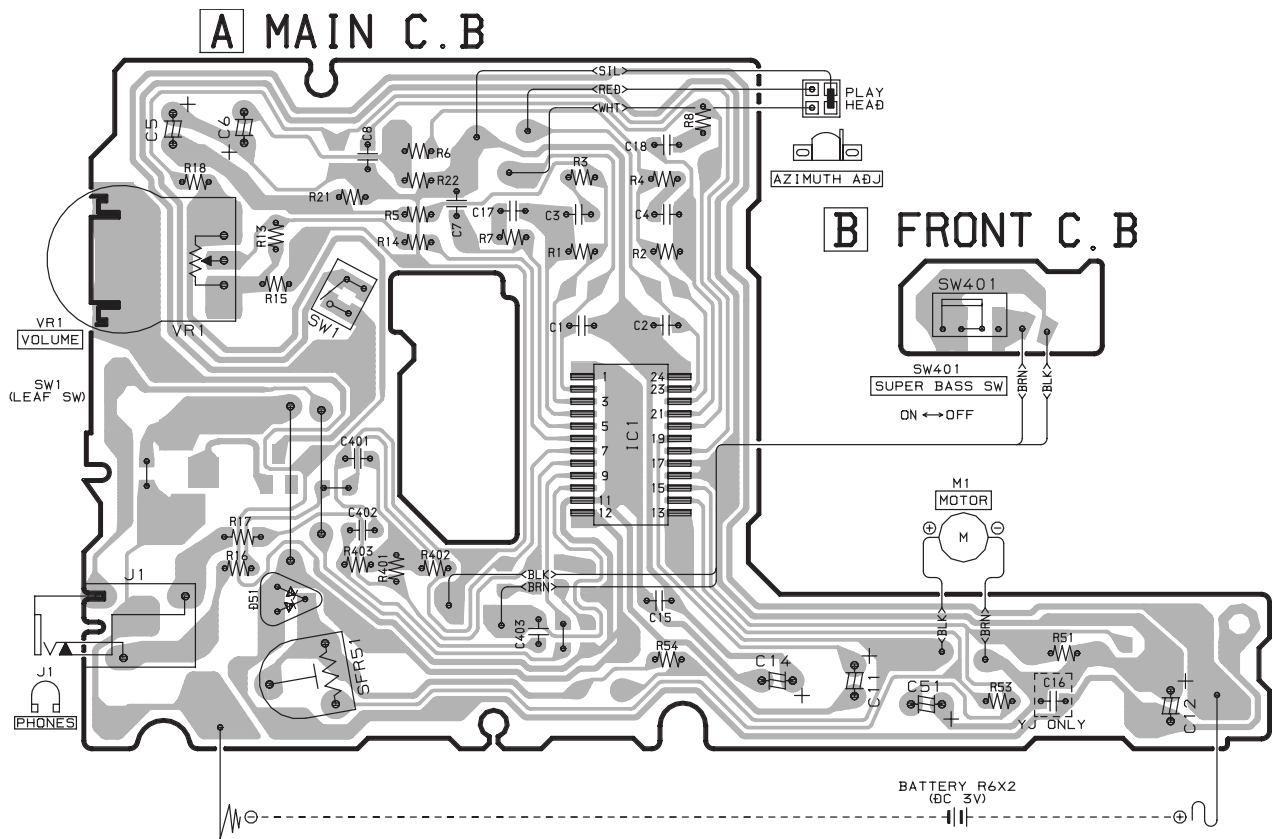
桁表示
Figure

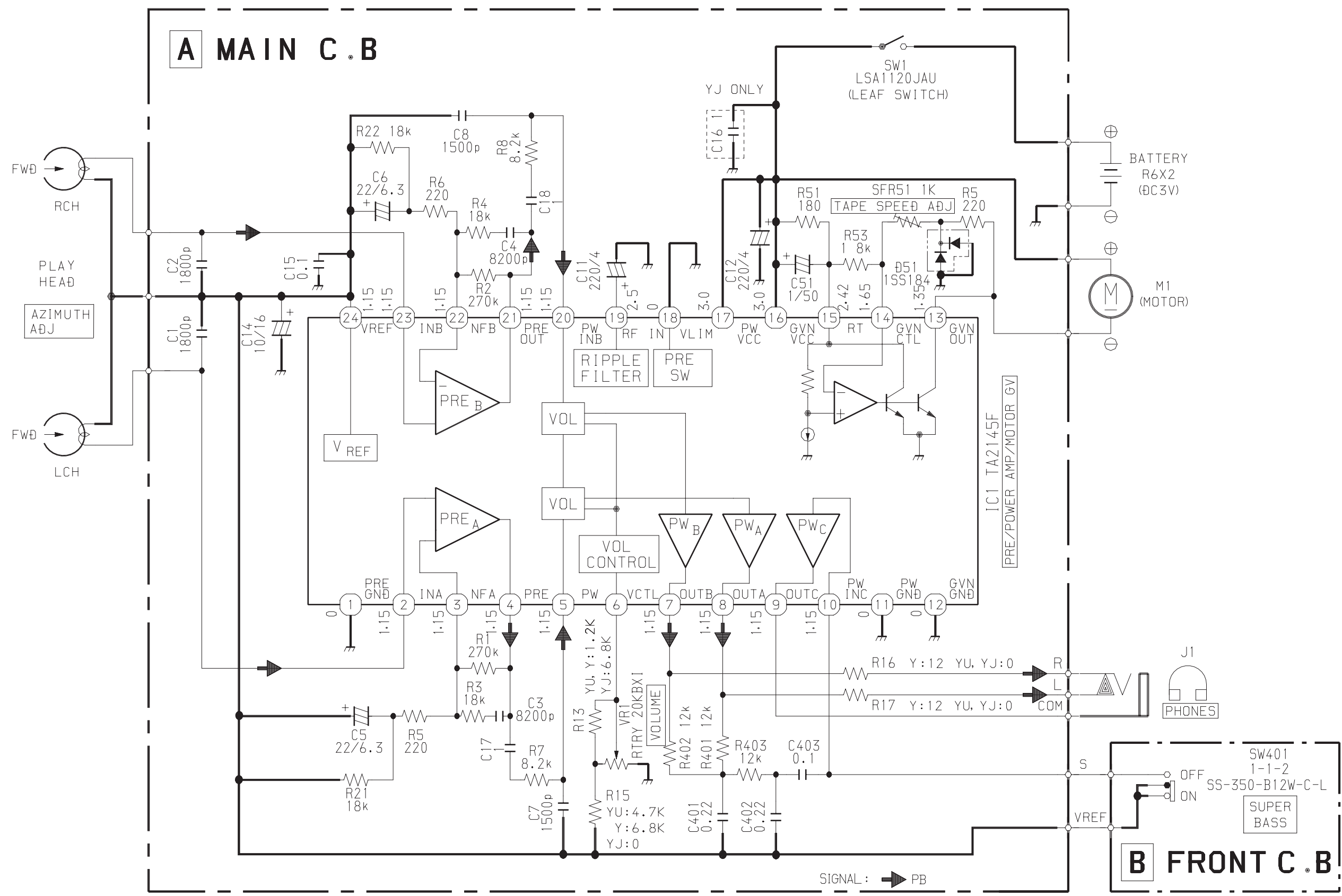
抵抗値
Value of resistor

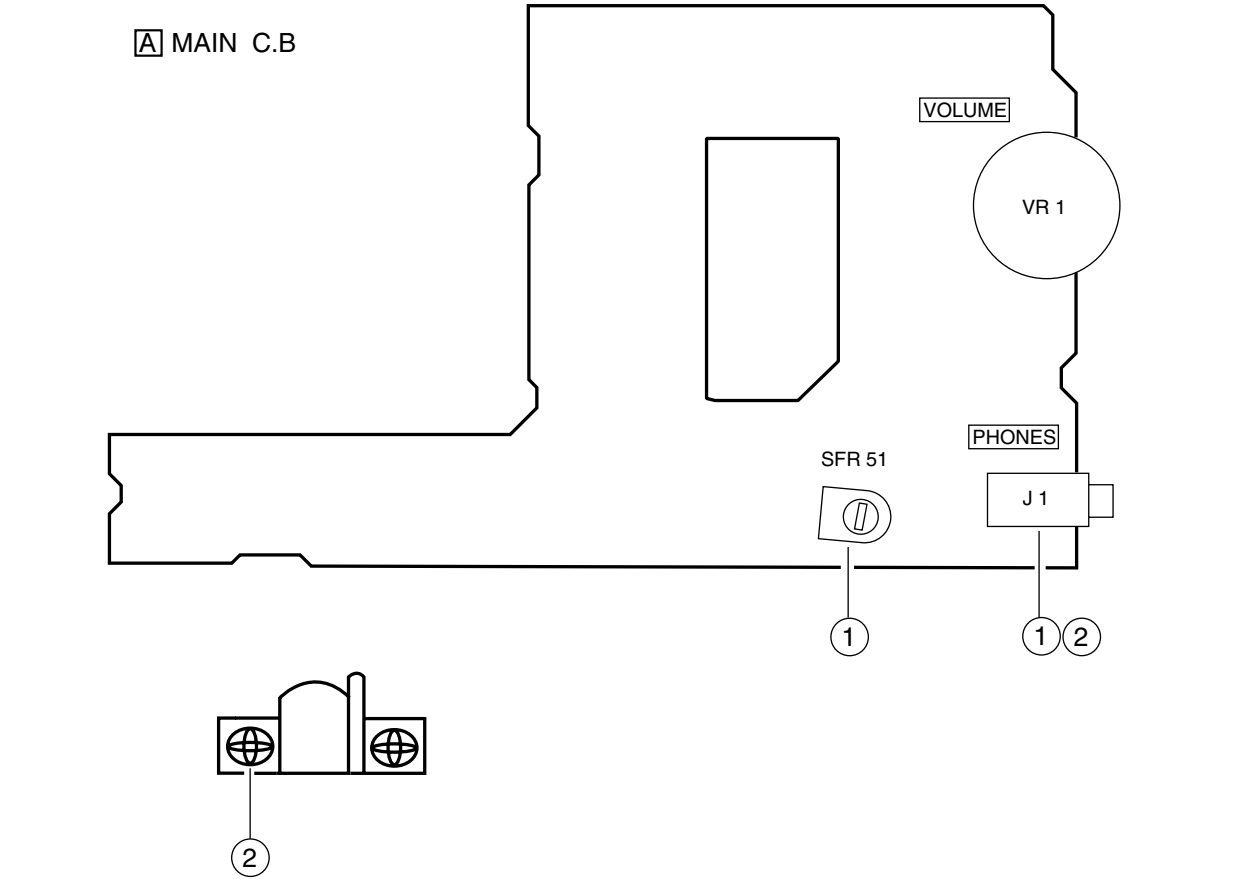
チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形/Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

WIRING (MAIN / FORNT)







1. Tape Speed Adjustment

Settings : • Test tape : TTA-100 (Tape center)

• Test point : PHONES JACK (J1)

• Adjustment location : SFR51

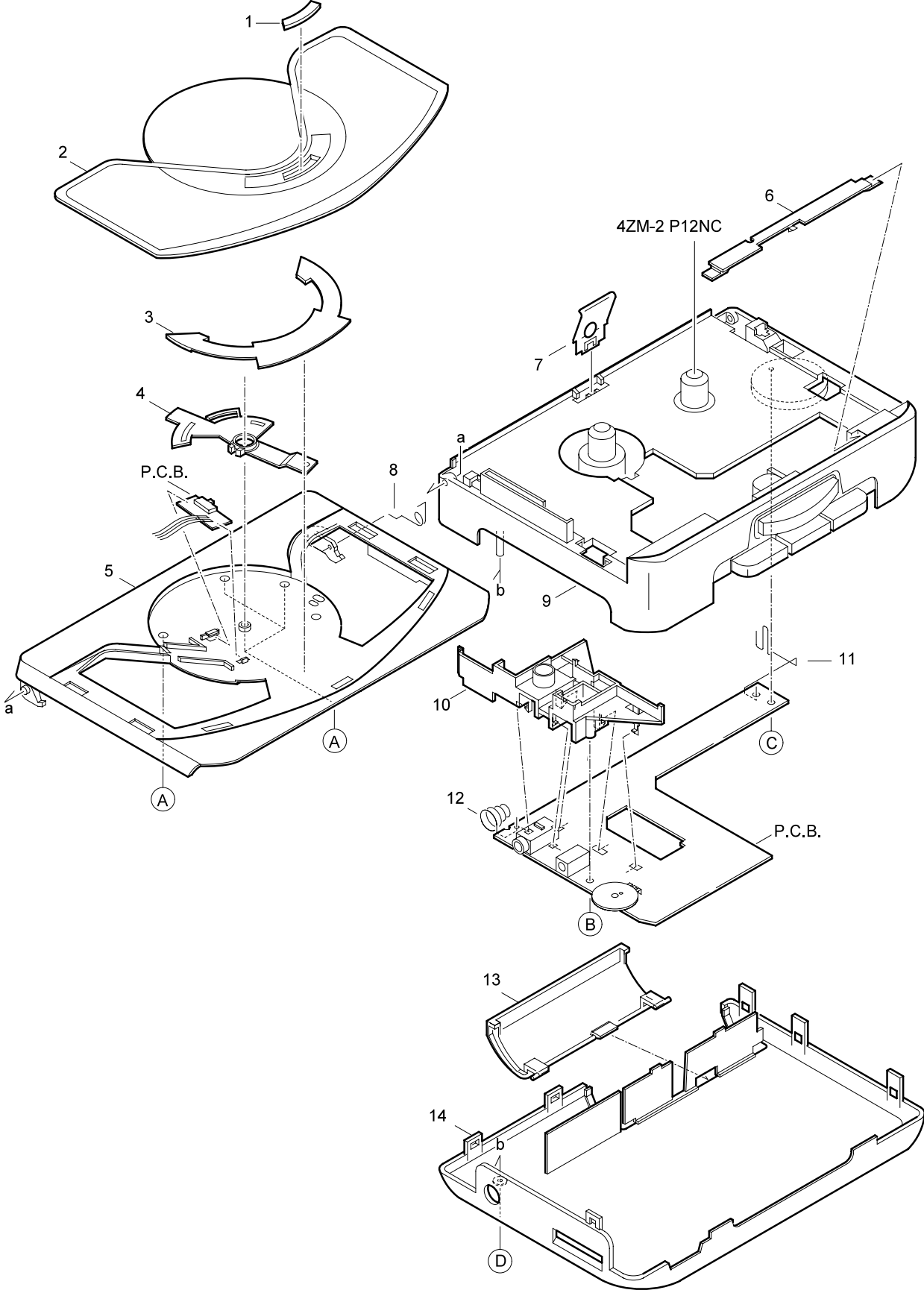
Method : Play back the test tape and adjust SFR51 so that the frequency is 3000Hz±10Hz.
2. Head Azimuth Adjustment

Settings : • Test tape : TTA-300

• Test point : PHONES JACK (J1)

• Adjustment location: Head azimuth adjustment screw

Method: Play back the test tape and adjust the screw so that the output becomes maximum and same phase.



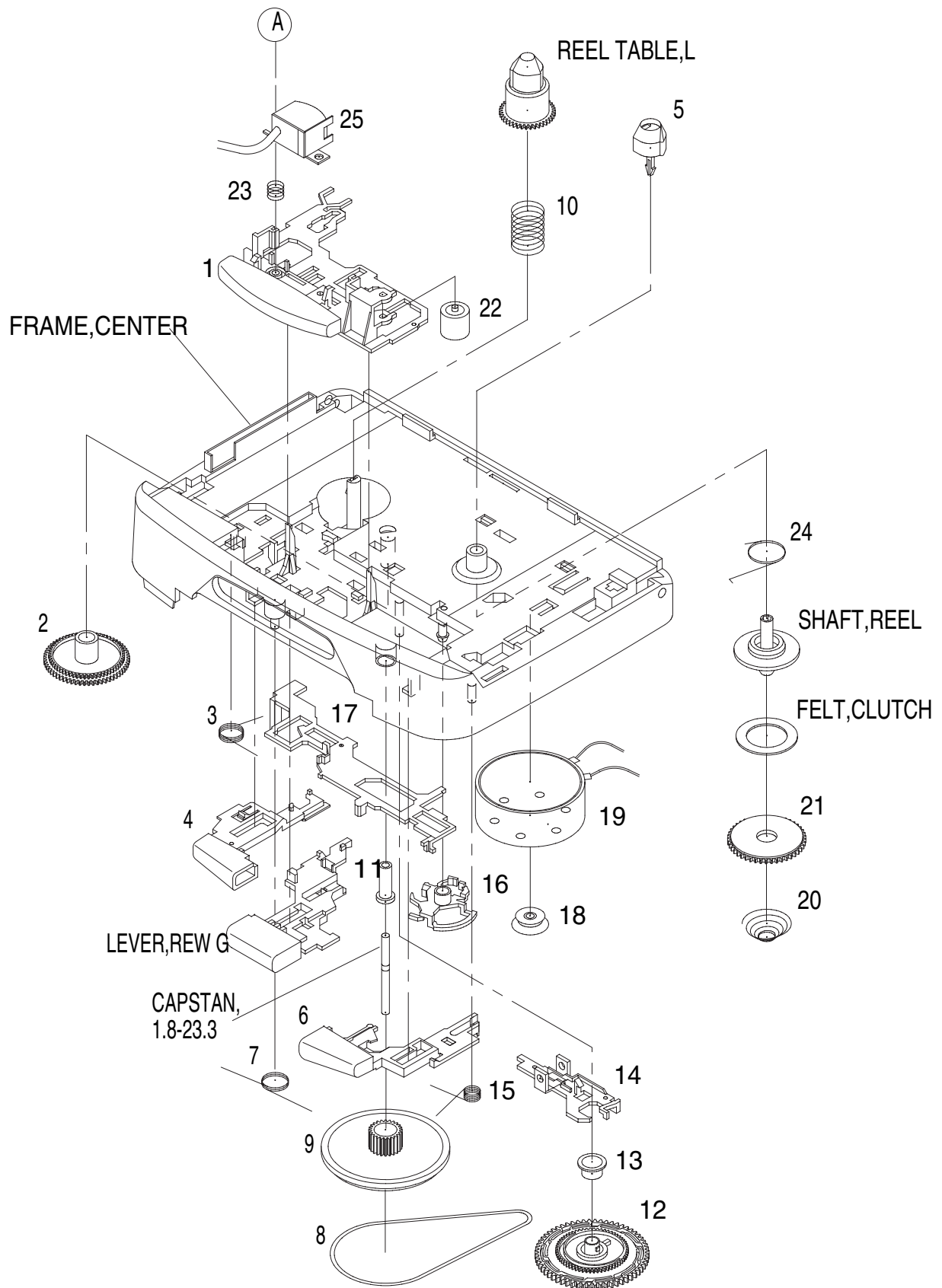
MECHANICAL PARTS LIST 1 / 1

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	8A-HKA-003-010		KNOB,SL SBASS
2	8A-HKA-002-010		PANEL,SBASS<YU,YJ>
2	8A-HKA-009-010		PANEL,SBASS YZ<[S]Y,[LL]Y,[LM]Y>
2	8A-HKA-014-010		PANEL,SBASS YZS<[GM]Y,[YM]Y>
3	8A-HKA-005-010		PLATE,COLOR
4	8A-HKA-004-010		PLATE,INDICATOR
5	8A-HKA-001-010		LID,CASS<YU,[S]Y,YJ>
5	8A-HKA-011-010		LID,CASS LBLU<[LL]Y>
5	8A-HKA-010-010		LID,CASS MBLU<[LM]Y>
5	8A-HKA-012-010		LID,CASS MGRE<[GM]Y>
5	8A-HKA-013-010		LID,CASS MYEL<[YM]Y>
6	87-HRR-206-010		PLATE,HEAD J034<YU,[S]Y,[YM]Y,YJ>
6	88-HKB-204-010		PLATE,HEAD J266G<[GM]Y>
6	88-HKB-205-010		PLATE,HEAD V10<[LL]Y,[LM]Y>
7	8A-HRL-202-010		SPR-P,CASS
8	86-HRM-205-010		SPR-T,CLICK
9	88-HKA-029-010		FRAME CENTER GRE<[GM]Y>
9	88-HRJ-038-010		FRAME,CENTER J034<YU,[S]Y,[YM]Y,YJ>
9	88-HKA-027-010		FRAME,CENTER VIO<[LL]Y,[LM]Y>
10	8Z-HKA-201-010		HLDR,JACK
11	8A-HKA-201-010		BAT-CONTACT,(+)
12	8Z-HKA-205-010		BAT-CONTACT,(-)
13	8Z-HKA-019-010		LID,BATT J049N<YU,[S]Y,YJ>
13	8Z-HKB-027-010		LID,BATT LBLU<[LL]Y>
13	8A-HKA-035-010		LID,BATT MBLU<[LM]Y>
13	8Z-HKB-054-010		LID,BATT MGRE163<[GM]Y>
13	8A-HKA-038-010		LID,BATT MYEL<[YM]Y>
14	8A-HKA-032-010		CABI,REAR LBLU YZ<[LL]Y>
14	8A-HKA-031-010		CABI,REAR MBLU YZ<[LM]Y>
14	8A-HKB-055-010		CABI,REAR MGRE YZ 16<[GM]Y>
14	8A-HKA-034-010		CABI,REAR MYEL<[YM]Y>
14	8A-HKA-007-010		CABI,REAR YU<YU,YJ>
14	8A-HKA-008-010		CABI,REAR YZ<[S]Y>
A	87-067-732-010		TAPPING SCREW, VT1.4-3
B	87-067-384-010		SCREWVT1.4-3.5HL
C	87-264-525-310		SCREW, V+1.7-2.5
D	87-067-691-010		SCREW VT+1.7-6

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow				

TAPE MECHANISM EXPLDED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	84-ZM2-012-110		LEVER, PLAY G
2	84-ZM2-211-110		GEAR, CONNECT
3	84-ZM2-222-110		SPR-T, PLAY
4	84-ZM2-015-110		LEVER, STOP G
5	84-ZM2-216-210		REEL TABLE, R
6	84-ZM2-013-110		LEVER, FF G
7	84-ZM2-223-110		SPR-T, REW STOP
8	84-ZM2-232-310		BELT, MAIN
9	84-ZM2-221-110		FLY-WHL, P2
10	84-ZM2-228-310		SPR-C, BT
11	84-ZM2-220-110		BRG, P
12	84-ZM2-210-210		GEAR, AUTO
13	84-ZM2-218-110		CAP, GEAR AUTO
14	84-ZM2-208-510		LEVER, SHIFT
15	84-ZM2-224-110		SPR-T, FF LOCK
16	84-ZM2-207-310		LEVER, AUTO
17	84-ZM2-206-410		LEVER, LOCK
18	84-ZM2-219-010		PULLEY, MOTOR
19	87-A91-379-010		MOT, BCY3B-13
20	84-ZM2-226-510		SPR-C, CLUTCH
21	84-ZM2-212-010		GEAR, CLUTCH
22	84-ZM2-233-110		ROLLER ASSY, PINCH
23	84-ZM2-227-310		SPR-C, AZIMUTH
24	84-ZM2-225-010		SPR-T, AUTO FIND
25	87-A91-458-010		HEAD, AP 4211TA
A	84-ZM2-252-010		S-SCREW, AZI-2-6.4 C

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サービス技術ニュース	
番号	連絡内容
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